

# ARIZONA

## Science and Engineering Profile

	Arizona	U.S.	Rank		Arizona	U.S.	Rank
Doctoral scientists, 1993	4,849	430,332	27	Total R&D performance, 1993 (millions)	\$1,608	\$161,427	24
Doctoral engineers, 1993	1,323	81,293	18	Industry R&D, 1993 (millions)	\$1,042	\$117,622	22
S&E doctorates awarded, 1995	455	26,482	20	Academic R&D, 1994 (millions)	\$343	\$20,573	20
of which, in engineering	24%	23%		of which, in life sciences	38%	55%	
in life sciences	20%	24%		in physical sciences	32%	10%	
in physical sciences	16%	14%		in engineering	12%	16%	
S&E postdoctorates, 1994				Higher education current-fund			
in doctorate-granting institutions	400	36,143	25	expenditures, 1993 (millions)	\$1,728	\$163,994	30
S&E graduate students, 1994				Number of SBIR awards, 1990-94	266	18,023	19
in doctorate-granting institutions	7,661	438,694	19	Patents issued to state residents, 1995	999	55,717	18
Population, 1995 (000s)	4,218	262,755	23	Gross state product, 1992 (billions)	\$74.1	\$5,994.1	26
Civilian labor force, 1995 (000s)	2,120	132,281	21	of which, agriculture	2%	2%	
Personal income per capita, 1995	\$20,421	\$22,788	36	manufacturing, mining, construction	19%	23%	
Federal spending				transportation, communication, utilities	8%	9%	
Total expenditures, 1995 (millions)	\$20,705	\$1,326,294	22	wholesale and retail trade	17%	16%	
R&D obligations, 1994 (millions)	\$795	\$65,654	19	finance, insurance, real estate	18%	18%	
				services	21%	20%	
				government	15%	12%	

Rankings and totals are based on data for the 50 States and D.C.

Data on S&E postdoctorates and S&E graduate students include health fields.

## Federal Obligations for Research and Development in Arizona by Agency and Performer: Fiscal Year 1994

[Thousands of dollars]

	Total	Federal intramural	All FFRDCs	Industrial firms	Universities & colleges	Other nonprofits	State & local government	State rank
<b>Total, all agencies</b>	795,129	165,033	28,271	423,935	165,392	9,555	2,943	19
<b>Department of Agriculture</b>	20,065	13,830	0	0	6,235	0	0	25
<b>Department of Commerce</b>	1,064	0	0	5	470	0	589	34
<b>Department of Defense</b>	559,383	137,287	0	407,166	14,930	0	0	17
<b>Department of Energy</b>	5,854	0	0	400	5,454	0	0	39
<b>Dept. of Health &amp; Human Services</b>	72,564	1,850	0	2,287	59,661	7,791	975	27
<b>Department of the Interior</b>	11,268	8,193	0	1,652	1,273	0	150	18
<b>Department of Transportation</b>	2,855	0	0	517	1,309	0	1,029	32
<b>Environmental Protection Agency</b>	729	0	0	89	640	0	0	37
<b>Nat'l Aeronautics &amp; Space Admin.</b>	66,234	3,873	0	11,219	49,804	1,138	200	12
<b>National Science Foundation</b>	55,113	0	28,271	600	25,616	626	0	10
<b>State rank</b>	19	16	15	16	23	28	26	

Federal R&D obligations are as reported by funding agencies.

FFRDC = federally funded research and development center

SBIR = small business innovation research

na = not applicable

Prepared by the National Science Foundation/Division of Science Resources Studies. Data compiled from numerous sources.